

AD-A067 761 ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12824C LANCE, MISSILE NUMBER 4661, ROUND NUMBER 324 NPL.(U)
MAR 79

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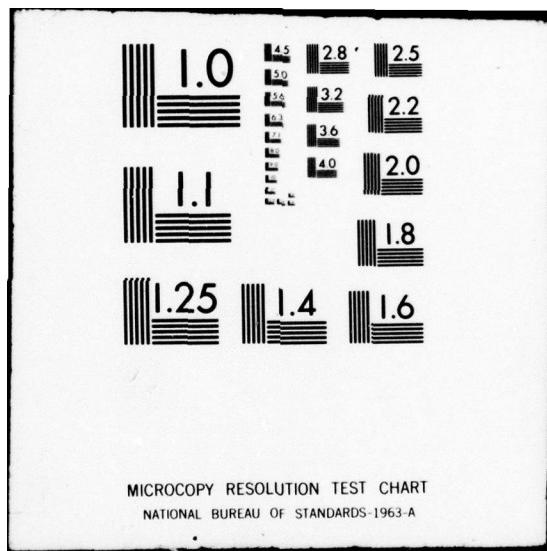
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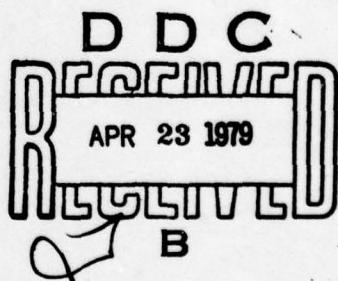
METEOROLOGICAL DATA REPORT

12824C LANCE
MISSILE NO. 4661, ROUND NO. 324 NPL
(15 DECEMBER 1978)

BY

WSMR METEOROLOGICAL TEAM

DDC FILE COPY



ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

E COM

UNITED STATES ARMY ELECTRONICS COMMAND

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(14) ECOM - REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM	
1. REPORT NUMBER DR-985	2. GOVT ACCESSION NUMBER (9) Meteorological data rep.	3. RECOMMENDED CATALOG NUMBER	
4. TITLE (and Subtitle) 12824C LANCE, MISSILE NO. 4661, ROUND NO. 324 NPL.		5. TYPE OF REPORT & PERIOD COVERED	
6. AUTHOR(s) WSMR METEOROLOGICAL TEAM		7. CONTRACT OR GRANT NUMBER(S) DA TASK 1T6657D2D127-02	
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS US ARMY ELECTRONICS COMMAND ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO		12. REPORT DATE MARCH 1979	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US ARMY ELECTRONICS COMMAND FT. MONMOUTH, NEW JERSEY		13. NUMBER OF PAGES 50	
16. DISTRIBUTION STATEMENT (of this Report) APPROVED FOR PUBLIC RELEASE: DISTRIBUTION UNLIMITED.		15. SECURITY CLASS. (of this report) UNCLASSIFIED	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)			
18. SUPPLEMENTARY NOTES			
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. BALLISTICS 2. METEOROLOGY 3. WIND			
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) METEOROLOGICAL DATA GATHERED FOR THE LAUNCHING OF 12824C LANCE, MISSILE NUMBER 4661, ROUND NUMBER 324 NPL, ARE PRESENTED IN TABULAR FORM.			

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INTRODUCTION

(AB) 12824 Lance, Missile Number 4661, Round Number 324 NPL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1002 HRS MST, 15 December 1978. The scheduled launched time was 1000 HRS MST.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

The data are presented in the following tabulations:

ELEVATION	3989.47	FEET/MSL
PRESSURE	883.5	MBS
TEMPERATURE	+5.2	°C
RELATIVE HUMIDITY	66	%
DEW POINT	-0.7	°C
DENSITY	1101	GM/M ³
WIND SPEED	02	MPH
WIND DIRECTION	270	DEGREES
CLOUD COVER	3	Ci

TABLE I. SURFACE OBSERVATION TAKEN AT LC-33
1002 HRS MST/15 DECEMBER 1978.

ACCESSION for	
NTIS	White Section <input checked="" type="checkbox"/>
DDC	Buff Section <input type="checkbox"/>
UNANNOUNCED <input type="checkbox"/>	
JUSTIFICATION _____	
BY _____	
DISTRIBUTION/AVAILABILITY CODES	
Dist.	AVAIL and/or SPECIAL
A	23

TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)	TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-30	002	3	-6	002	2
-29	002	3	-5	002	2
-28	002	2	-4	002	2
-27	002	2	-3	002	2
-26	002	2	-2	002	2
-25	002	2	-1	002	2
-24	002	2	-0	002	2
-23	002	2	+1	002	2
-22	002	2	+2	002	3
-21	002	2	+3	002	3
-20	002	2	+4	002	3
-19	002	2	+5	001	2
-18	002	2	+6	001	2
-17	002	2	+7	001	2
-16	002	2	+8	001	2
-15	002	2	+9	001	2
-14	002	2	+10	001	2
-13	002	2			
-12	002	2			
-11	002	2			
-10	002	2			
-9	002	2			
-8	002	2			
-7	002	2			

TABLE II. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 1
 RELEASED FROM LC-33 AT 1002 HRS MST/15 DECEMBER 1978
 12824 LANCE/ROUND NUMBER 324 NPL

WSTM COORDINATES: X = 485,874.29 Y = 185,958.90 Z = 4018.74

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-30	020	3
-29	020	2
-28	020	2
-27	020	2
-26	020	2
-25	030	2
-24	030	2
-23	030	2
-22	030	2
-21	030	2
-20	030	2
-19	020	2
-18	020	2
-17	020	3
-16	020	3
-15	020	3
-14	020	3
-13	020	3
-12	020	3
-11	020	2
-10	020	2
-9	020	2
-8	020	2

TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-7	020	2
-6	020	2
-5	020	2
-4	020	2
-3	020	2
-2	020	2
-1	020	2
-0	020	2
+1	020	2
+2	020	2
+3	020	2
+4	020	2
+5	020	2
+6	020	2
+7	020	2
+8	020	2
+9	020	2
+10	020	2

TABLE III. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 2
 RELEASED FROM LC-33 AT 1003 HRS MST/15 DECEMBER 1978
 12824 LANCE/ROUND NUMBER 324 NPL

WSTM COORDINATES: X = 485,874.93 Y = 186,012.00 Z = 4,033.57

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)	TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-30	164	01	-7	164	01
-29	164	01	-6	164	01
-28	C	C	-5	164	01
-27	C	C	-4	164	01
-26	C	C	-3	164	01
-25	C	C	-2	164	01
-24	C	C	-1	164	01
-23	C	C	-0	164	01
-22	164	01	+1	C	C
-21	164	01	+2	C	C
-20	164	01	+3	C	C
-19	164	01	+4	164	01
-18	164	01	+5	164	01
-17	164	01	+6	164	01
-16	164	01	+7	C	C
-15	164	01	+8	C	C
-14	164	01	+9	C	C
-13	164	01	+10	C	C
-12	164	01			
-11	164	01			
-10	164	01			
-9	164	01			
-8	164	01			

TABLE IV. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 3
 RELEASED FROM LC-33 AT 1003 HRS MST/15 DECEMBER 1978
 12824 LANCE/ROUND NUMBER 324 NPL

WSTM COORDINATES: X = 485,877.29 Y = 186,116.06 Z = 4,063.92

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	CALM		2100	342	3.0
100	CALM		2200	311	3.5
200	CALM		2300	300	7.0
300	041	0.1	2400	288	10.0
400	036	0.2	2500	286	13.0
500	048	2.5	2600	284	15.5
600	060	2.5	2700	285	15.5
700	030	2.0	2800	285	15.5
800	025	1.5	2900	289	15.5
900	021	2.0	3000	293	15.0
1000	041	2.5	3100	293	15.0
1100	045	2.0	3200	292	15.0
1200	048	1.0	3300	289	15.5
1300	043	2.0	3400	285	15.5
1400	037	2.5	3500	286	17.0
1500	024	3.0	3600	286	18.0
1600	011	3.5	3700	289	19.0
1700	010	3.5	3800	292	20.0
1800	009	3.0	3900	295	20.0
1900	011	2.5	4000	298	19.5
2000	013	2.0	4100	298	18.0

TABLE V. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 0949 HRS MST/15 DECEMBER 1978
12824 LANCE, MISSILE NO. 4661, ROUND NO. 324 NPL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24

Y = 182,350.16

Z = 2,977.30

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	298	16.5	6600	272	28.0
4300	299	17.0	6700	271	28.5
4400	300	17.5	6800	269	29.0
4500	301	18.5	6900	270	28.5
4600	302	19.0	7000	271	27.5
4700	311	19.5	7100	269	27.5
4800	299	19.5	7200	267	27.5
4900	299	19.5	7300	262	29.0
5000	298	19.0	7400	257	30.0
5100	298	20.0	7500	257	29.5
5200	298	21.0	7600	257	29.0
5300	298	22.0	7700	257	29.5
5400	298	22.5	7800	256	29.5
5500	298	23.5	7900		
5600	297	24.0	8000		
5700	294	25.0	8100		
5800	291	26.0	8200		
5900	291	26.0	8300		
6000	290	26.0	8400		
6100	287	27.0	8500		
6200	284	27.5	8600		
6300	280	28.0	8700		
6400	276	28.0	8800		
6500	274	28.0	8900		

TABLE V. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	270	2.0	2100	289	2.5
100	315	1.5	2200	284	2.5
200	360	1.0	2300	295	5.5
300	003	3.0	2400	306	8.5
400	006	5.0	2500	296	11.0
500	003	3.0	2600	286	13.5
600	360	1.0	2700	285	16.0
700	006	2.0	2800	283	18.5
800	011	2.5	2900	287	17.0
900	025	3.5	3000	290	15.5
1000	039	4.5	3100	289	15.5
1100	065	3.5	3200	288	15.0
1200	090	2.5	3300	286	15.0
1300	095	2.0	3400	283	14.5
1400	100	1.5	3500	283	15.5
1500	061	2.0	3600	282	16.5
1600	022	2.5	3700	287	18.0
1700	355	3.0	3800	291	19.0
1800	327	3.0	3900	291	19.5
1900	310	2.5	4000	291	20.0
2000	293	2.0	4100	292	19.0

TABLE VI. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 1002 HRS MST/15 DECEMBER 1978
12824 LANCE, MISSILE NO. 4661, ROUND NO. 324 NPL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24

Y = 182,350.16

Z = 3,977.30

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	292	17.5	6600	277	29.5
4300	295	18.0	6700	275	29.5
4400	298	18.0	6800	273	29.5
4500	296	17.5	6900	273	29.5
4600	294	16.5	7000	272	29.0
4700	294	18.0	7100	272	28.0
4800	294	19.0	7200	271	27.0
4900	294	19.0	7300	265	28.0
5000	293	18.5	7400	258	29.0
5100	294	19.5	7500	257	30.0
5200	295	20.5	7600	255	31.0
5300	296	21.5	7700	257	30.5
5400	297	22.0	7800	259	30.0
5500	299	23.0	7900	260	29.0
5600	300	24.0	8000	260	28.0
5700	298	26.0	8100	261	28.0
5800	295	27.5	8200	261	27.5
5900	294	28.0	8300	262	27.5
6000	293	28.0	8400	263	27.0
6100	290	28.5	8500	265	27.0
6200	287	28.5	8600	267	26.5
6300	283	29.0	8700	269	27.5
6400	279	29.0	8800	271	28.0
6500	278	29.5	8900	269	28.5

TABLE VI. (CONT)
NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	267	28.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
11400		

TABLE VI. (CONT)
NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 3,989.00 FEET MSL
15 DEC. 78 1300 HRS KST
ASCENSION NO. 390

SIGNIFICANT LEVEL DATA
34°20'00.000
WHITE SANDS
TABLE VII.

GEODETIC COORDINATES
32°40'43 LAT DEG
106°37'33 LONG DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE ASL FEET	TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT
682.3	3989.0	3.8	-4.4
674.2	4205.1	3.0	-2.6
650.0	4305.5	4.7	-3.1
629.8	5501.3	6.9	-2.0
618.8	5990.2	5.6	-3.0
797.4	3703.8	7.0	-4.1
765.4	7610.9	7.5	-7.7
700.0	10203.2	2.1	-14.6
585.0	10754.0	1.6	-21.3
671.0	11355.9	3.5	-21.4
585.0	14270.7	-4.5	-25.6
556.2	15772.7	-5.4	-27.9
349.6	16540.9	-5.0	-29.1
500.0	18239.2	-3.3	-32.6
400.4	24145.5	-21.7	-41.9
400.0	24503.3	-22.3	-40.0
379.3	25751.2	-26.3	-25.3
370.4	25345.0	-27.6	-42.3
348.0	27773.9	-30.4	-42.9
300.0	31225.5	-29.1	-45.4
280.0	32744.9	-42.1	-33.0
250.0	35202.7	-48.5	-28.0
200.0	38876.1	-60.0	-45.0
172.8	42241.5	-66.0	-33.0
165.2	43641.0	-66.0	-33.0
150.0	45502.5	-59.4	-33.0
134.2	45062.0	-62.6	-33.0
124.4	47622.8	-62.8	-33.0
115.2	51171.2	-66.5	-33.0
100.0	53942.1	-67.4	-33.0

STATION ALTITUDE 3989.00 FEET MSL
15 DEG. 70' LAT.
ASIGNATION NO. 500

SIGNIFICANT LEVEL DATA
34900203000
WHITE SANDS
TABLE VII.

GEODETIC COORDINATES
32°40.043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE METERS MSL	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
92.2	55595.7	-70.3	
31.0	50166.7	-65.3	
70.0	61061.1	-68.0	
61.2	63735.5	-69.3	
50.0	67704.2	-65.3	
41.6	71401.7	-61.4	
34.6	75132.0	-61.1	
30.0	75256.2	-57.5	
23.0	83703.3	-57.5	
20.0	80737.6	-53.4	
13.2	53301.6	-41.6	
11.7	95507.4	-37.3	

STATION ALTITUDE 3,335.00 FEET MSL
15 DEC. 78 1000 HRS WEST
ASCENSION 10.0. E90

UPPER AIR DATA
340020ZU
WHITE SANDS

TABLE VIII.

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	REFL.DIST. CM/CURRIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(T.)	WIND DIRECTION DEGREES(T.)	INDEX OF REFRACTION
3959.0	362.3	-4.9	23.0	1137.8	648.9	•0	1.000268	
4020.0	661.9	-4.8	23.4	1177.4	640.9	1.000268		
4050.0	295.6	-4.0	2.9	1085.7	649.3	1.000266		
3920.0	349.5	+7	-3.1	1062.7	650.1	1.000261		
3530.0	235.9	5.7	-2.7	54.6	1039.4	651.2	1.000259	
3010.0	813.5	5.6	-3.0	53.9	1020.2	651.2	1.000251	
3550.0	303.5	6.6	-3.7	47.6	996.3	652.3	1.000245	
3000.0	766.7	7.1	-5.0	41.8	976.3	652.9	1.000238	
2730.0	774.3	7.4	-6.0	36.4	959.0	653.4	1.000232	
2700.0	760.0	7.1	-2.2	32.7	945.3	652.7	1.000226	
3220.0	740.3	5.9	-9.5	31.8	929.7	652.0	1.000222	
3670.0	724.2	4.2	-10.8	31.0	915.3	650.0	1.000217	
3950.0	718.6	5.7	-12.2	30.2	903.4	648.3	15.4	
4000.0	705.3	2.6	-13.5	29.3	890.2	647.2	16.5	
4050.0	692.2	1.9	-17.5	22.0	679.9	646.4	23.2	
4110.0	679.3	2.5	-21.3	15.1	857.0	647.0	24.4	
4150.0	699.6	3.1	-21.6	14.1	840.7	647.7	23.5	
4120.0	654.6	2.0	-22.2	14.6	827.4	645.4	1.000197	
4125.0	641.7	.9	-22.6	15.0	815.1	645.2	1.000192	
4130.0	629.6	-2	-23.3	15.4	802.9	645.9	1.000189	
4155.0	617.7	-1.2	-23.9	15.8	791.9	642.0	1.000186	
4140.0	600.0	-2.3	-24.5	16.2	779.2	641.3	1.000180	
4145.0	594.6	-3.4	-25.2	16.6	767.6	640.0	1.000175	
4150.0	583.4	-4.5	-25.9	17.0	750.2	639.7	24.1	
4157.0	572.2	-5.1	-27.1	15.7	745.5	638.0	1.000172	
4160.0	561.2	-5.3	-28.2	14.4	729.0	637.7	24.6	
4162.0	555.4	-5.0	-28.5	15.1	714.9	636.4	22.1	
4167.0	552.0	-5.0	-28.7	12.8	704.7	637.3	21.8	
4170.0	529.4	-6.3	-30.5	12.6	691.0	636.3	35.1	
4175.0	519.2	-7.0	-31.2	12.4	679.4	635.7	37.1	
4180.0	519.2	-7.0	-31.2	12.4	679.4	635.7	36.7	

xx *END DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

GEOMETRIC ALTITUDE IN FEET	PRESSURE IN MILLIBARS	TEMPERATURE AIR WEEPPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	509.2	-7.7	-31.9	12.2	666.6	634.9	200.0	39.7
49000.0	499.4	-8.4	-32.6	12.0	656.9	634.0	201.7	40.6
49500.0	489.4	-9.7	-33.5	12.2	647.0	632.4	203.5	41.6
50000.0	479.7	-11.0	-34.4	12.4	637.3	630.9	204.9	42.5
50500.0	470.2	-12.3	-35.3	12.6	627.7	629.3	200.1	43.3
21000.0	460.8	-13.6	-36.2	12.8	616.3	627.7	200.3	44.7
21500.0	451.6	-14.9	-37.1	13.0	609.1	626.4	200.6	46.3
22000.0	442.6	-16.2	-38.0	13.2	609.0	624.6	205.6	47.3
22500.0	433.6	-17.5	-38.9	13.4	591.0	623.0	205.6	49.2
23000.0	425.2	-18.3	-39.8	13.6	582.2	621.4	205.5	50.0
23500.0	416.7	-20.1	-40.7	13.6	573.9	619.6	205.4	50.5
24000.0	406.5	-21.4	-41.7	14.0	565.1	615.4	205.9	50.9
24500.0	400.2	-22.8	-40.0	13.9	556.7	610.5	201.7	51.3
25000.0	391.9	-24.2	-37.4	23.1	546.2	614.6	259.5	52.0
25500.0	383.8	-25.6	-35.8	37.3	539.9	613.0	257.3	52.9
26000.0	375.3	-26.9	-37.9	34.1	531.4	611.5	250.5	54.4
26500.0	366.0	-27.9	-42.3	23.5	522.6	610.1	259.7	56.4
27000.0	356.3	-28.9	-42.5	25.3	513.7	609.9	257.3	56.4
27500.0	352.7	-29.9	-42.7	27.0	504.9	607.7	259.9	60.5
28000.0	343.2	-31.0	-43.3	28.3	496.5	606.3	261.5	61.8
28500.0	337.8	-32.2	-44.2	29.1	486.3	604.7	262.6	61.3
29000.0	330.5	-33.5	-45.1	29.6	480.3	603.1	264.3	60.3
29500.0	323.4	-34.8	-46.0	30.5	472.0	604.5	200.6	57.6
30000.0	316.4	-36.0	-46.9	31.2	464.0	600.0	209.0	56.0
30500.0	309.6	-37.3	-47.8	31.9	457.2	598.4	272.6	59.0
31000.0	303.0	-39.5	-48.8	32.7	449.5	596.6	275.7	62.3
31526.0	296.4	-39.6	-51.4	<7.0**	442.4	595.3	278.7	67.3
32000.0	289.8	-40.9	-56.6	16.0**	594.0	201.4	72.5	1.000097
32500.0	283.4	-41.7	-56.2	4.9**	426.5	234.7	75.3	1.000095
33000.0	277.1	-42.3			419.1	591.3	267.0	1.000093

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3,839.00 FEET MSL
 15 DEC. 78 1000 HRS NST
 ASCENSION ISL. 800

UPPER AIR DATA
 349002000U
 WHITE SANDS

GEOGRAPHIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON LEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL.HUM. PERCENT	SOUND METER ANOTS	WIND DIRECT DEGREES (T.)	WIND SPEED KNOTS	INDEX OF REFRACTION
3350.0	270.9	-44.1		411.9	567.7	263.6	1.000092
3400.0	264.8	-45.3		404.9	568.0	269.0	1.000090
3450.0	256.3	-46.6		396.0	560.4	269.3	1.000089
3500.0	253.6	-47.3		391.4	564.8	289.0	1.000087
3550.0	247.2	-49.1		354.3	563.6	283.5	1.000086
3600.0	241.4	-50.5		377.4	561.6	269.2	1.000084
3650.0	235.3	-51.5		370.6	560.0	288.6	1.000083
3700.0	230.3	-52.7		365.9	570.4	267.0	1.000081
3750.0	224.9	-54.0		357.4	576.8	207.3	1.000080
3800.0	219.6	-55.2		351.6	575.4	259.7	1.000078
3850.0	214.5	-56.4		344.7	573.0	200.3	1.000077
3900.0	209.5	-57.6		338.5	571.9	260.6	1.000075
3950.0	204.6	-58.8		336.3	570.3	260.0	1.000074
4000.0	199.8	-60.0		326.0	566.7	260.4	1.000073
4050.0	194.9	-61.1		326.1	567.4	259.5	1.000071
4100.0	190.2	-62.1		313.8	566.0	267.0	1.000070
4150.0	185.5	-63.1		307.7	564.0	207.4	1.000069
4200.0	181.0	-64.1		301.0	565.0	260.0	1.000067
4250.0	176.5	-65.1		295.7	561.9	284.5	1.000066
4300.0	172.3	-66.0		289.7	560.7	282.1	1.000065
4350.0	168.9	-66.9		282.0	560.7	270.0	1.000063
4400.0	165.5	-67.5		274.9	561.4	274.0	1.000061
4450.0	162.3	-68.3		266.4	563.7	270.4	1.000059
4500.0	159.0	-69.1		257.0	566.0	267.7	1.000057
4550.0	152.2	-69.4		249.3	569.2	260.4	1.000056
4600.0	148.6	-70.7		242.5	569.4	263.7	1.000054
4650.0	145.0	-69.4		237.4	569.2	262.4	1.000053
4700.0	141.5	-61.2		234.5	567.2	261.5	1.000052
4750.0	138.1	-61.9		227.7	566.2	261.1	1.000051
4800.0	134.7	-52.7		223.0	565.2	260.7	1.000050

STATION ALTITUDE 3,899.00 FEET ASL
 15 DEC. 73 1000 HRS HST
 ASCENSION NO. 900

UPPER AIR DATA
 3490020 JUL
 WHITE SANDS

GEODETIC COORDINATES
 32°40.043 LAT DEG
 106.37033 LONG DEG

GEOMETRIC ALTITUDE IN SL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES C	REL.HUM. PERCENT	SPEED OF SOUND KNOTS	WIND DATA DIRECTION, DEGREES(T)	SPEED KNOTS	INFLUX OF REFRACTION
43520.0	131.5	-62.6	217.7	562.0	264.1	75.0	1.000043
49020.0	128.3	-62.3	212.4	562.0	261.4	75.5	1.000047
49520.0	125.2	-62.5	207.3	555.0	261.7	75.0	1.000046
50020.0	122.1	-62.7	203.0	560.9	261.7	73.0	1.000045
50520.0	119.1	-64.5	199.1	562.4	261.6	70.9	1.000044
51020.0	116.2	-65.9	195.0	560.8	260.6	65.5	1.000043
51520.0	113.3	-66.4	191.0	560.1	259.6	58.6	1.000043
52020.0	110.5	-66.5	186.4	559.9	257.2	53.9	1.000042
52520.0	107.6	-66.6	182.0	559.5	255.4	50.4	1.000041
53020.0	105.1	-67.0	177.0	559.3	254.7	49.8	1.000040
53520.0	102.5	-67.2	173.4	559.1	252.1	51.5	1.000039
54020.0	100.0	-67.4	169.3	558.9	250.5	52.9	1.000038
54520.0	97.5	-68.3	165.6	557.6	250.2	52.9	1.000037
55020.0	95.0	-69.2	162.3	556.3	250.1	52.9	1.000036
55520.0	92.0	-70.1	159.0	555.1	254.9	52.4	1.000035
56020.0	90.3	-69.5	154.5	552.9	250.7	49.0	1.000034
56520.0	88.1	-68.5	150.0	557.3	252.7	45.6	1.000033
57020.0	85.9	-67.6	145.9	556.0	251.9	42.4	1.000032
57520.0	83.5	-66.6	141.3	554.9	251.7	39.4	1.000031
58020.0	81.7	-65.5	137.4	561.2	251.5	36.5	1.000031
58520.0	79.7	-64.6	133.7	561.2	252.2	35.6	1.000030
59020.0	77.7	-63.7	130.7	560.7	253.0	35.0	1.000029
59520.0	75.3	-62.5	127.7	560.0	254.0	35.1	1.000028
60020.0	73.9	-62.0	124.9	559.4	255.2	36.4	1.000027
60520.0	72.1	-61.5	122.4	556.7	255.7	37.8	1.000027
61020.0	70.3	-61.1	120.7	556.1	256.7	39.3	1.000027
61520.0	68.5	-60.5	118.3	556.1	256.7	40.9	1.000026
62020.0	66.8	-60.4	116.5	557.7	259.3	42.6	1.000025
62520.0	65.2	-63.7	113.7	557.4	262.4	43.0	1.000025
63020.0	63.5	-65.9	111.0	557.1	265.6	43.2	1.000024
			108.4	556.7			

STATIC ALTITUDE 3939.0 FT MSL
15 SEC. 78 1030 IRS HSI
ASCUSSION 140. 000

UPPER AIR DATA
WHITE SANDS
MEXICO CITY

GEODETIC COORDINATES
52°40'04.3 LAT DEG
106°37'33 LON LEG

GEODETIC ALTITUDE IN FEET	PRESSURE IN MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. CENTIGRADE	DENSITY GM/CUBIC METER	SPEED OF WIND KNOTS	INDEX OF REFRACTION
9350.0	81.9	-69.2	105.4	550.4	43.5	1.00024
9400.0	80.4	-69.0	103.1	550.6	40.6	1.00023
9450.0	80.9	-68.5	100.3	557.3	37.9	1.00022
9500.0	87.4	-66.0	97.6	557.9	34.9	1.00022
9550.0	80.0	-67.5	94.9	550.6	29.5	1.00021
9600.0	84.6	-67.1	92.3	559.3	24.1	1.00021
9650.0	83.3	-66.6	89.8	560.0	20.7	1.00020
9700.0	82.0	-66.1	87.4	560.6	26.7	1.00019
9750.0	80.7	-65.6	85.0	561.3	26.7	1.00019
9800.0	80.4	-65.0	82.7	562.0	287.7	13.6
9850.0	84.2	-64.5	80.5	562.7	285.0	14.1
9900.0	87.0	-64.0	78.4	563.4	265.0	14.6
9950.0	85.9	-63.4	76.3	564.2	264.0	14.8
10000.0	84.8	-62.9	74.2	564.9	265.6	14.5
10050.0	82.7	-62.4	72.2	565.0	262.0	14.2
10100.0	82.6	-61.6	70.3	566.3	264.1	14.2
10150.0	81.5	-61.4	68.4	566.9	279.2	14.9
10200.0	80.6	-61.4	66.6	567.0	277.4	15.6
10250.0	39.6	-61.2	65.2	567.6	275.5	16.6
10300.0	33.7	-61.3	65.6	567.1	273.6	18.3
10350.0	37.7	-61.2	62.0	567.4	272.1	20.0
10400.0	36.8	-61.2	60.5	567.4	273.1	21.7
10450.0	35.9	-61.2	59.1	567.2	257.4	23.4
10500.0	35.1	-61.1	57.9	567.3	204.5	25.3
10550.0	34.2	-60.7	56.4	567.6	262.1	27.1
10600.0	33.4	-60.1	54.7	569.6	252.0	28.4
10650.0	32.6	-59.5	53.2	569.4	250.8	29.9
10700.0	31.8	-53.9	51.5	570.2	254.5	31.3
10750.0	31.1	-53.4	50.4	571.0	254.1	30.6
10800.0	30.3	-57.3	49.1	571.7	253.7	30.0

STATION ALTITUDE 3,089.00 FEET MSL
 15 SEC. 78 1000 HRS MST
 ASCENSION NO. 800

UPPER AIR DATA
 3490000800
 WHITE SANDS

GEODETIC COORDINATES
 32°40'43" LAT DEG
 106°37'53" LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY CM/CUSCIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION, DEGREES(1.)	INDEX OF REFRACTION
7650.0	29.6	-57.5	47.9	574.1	253.3	29.4	1.000011
7900.0	26.9	-57.5	46.7	574.1	253.2	26.6	1.000010
7950.0	28.2	-57.5	45.9	572.1	253.0	23.6	1.000010
8000.0	27.6	-57.5	44.9	572.1	201.5	20.6	1.000010
8050.0	26.9	-57.5	43.5	572.1	205.3	18.6	1.000010
8100.0	26.3	-57.5	42.5	572.1	209.5	17.0	1.000009
8150.0	25.7	-57.5	41.5	572.1	274.4	15.5	1.000009
8200.0	25.1	-57.5	40.5	572.1	277.2	15.4	1.000009
8250.0	24.5	-57.5	39.5	572.1	273.7	18.2	1.000009
8300.0	23.9	-57.5	38.0	572.1	271.1	21.0	1.000009
8350.0	23.3	-57.5	37.7	572.1	269.1	23.8	1.000008
8400.0	22.8	-57.2	36.7	572.5	266.1	26.6	1.000008
8450.0	22.2	-56.5	35.8	573.4	263.4	29.4	1.000008
8500.0	21.7	-55.8	34.9	574.3	261.2	32.3	1.000008
8550.0	21.2	-55.1	33.9	575.2	259.7	34.6	1.000008
8600.0	20.7	-54.4	33.0	576.2	253.8	36.0	1.000007
8650.0	20.2	-53.7	32.1	577.1	258.0	37.4	1.000007
8700.0	19.8	-53.1	31.3	578.0	257.2	38.9	1.000007
8750.0	19.3	-52.4	30.9	576.3	258.4	41.6	1.000007
8800.0	18.9	-51.8	29.7	579.7	259.3	44.4	1.000007
8850.0	18.5	-51.1	29.0	580.5	260.5	47.2	1.000006
8900.0	18.0	-50.5	28.2	581.4	262.1	49.5	1.000006
8950.0	17.6	-49.8	27.5	582.2	264.0	51.2	1.000006
9000.0	17.2	-49.2	26.6	583.0	265.9	53.0	1.000006
9050.0	16.8	-48.5	26.1	585.9	269.1	54.9	1.000006
9100.0	16.5	-47.9	25.5	584.7	272.0	55.2	1.000006
9150.0	16.1	-47.2	24.6	585.0	274.9	55.4	1.000006
9200.0	15.7	-46.6	24.2	586.4	277.8	55.8	1.000005
9250.0	15.4	-45.9	23.6	587.3	280.4	56.6	1.000005
9300.0	15.0	-45.3	23.0	588.1	282.3	58.6	1.000005

STATION ALTITUDE 3489.00 FEET MSL
 15 DEC. 78 1000 hrs MST
 ASCESSION NO. 300

UPPER AIR DATA
 349002000
 WHITE SANDS

GEODETIC COORDINATES
 32°40'43" LAT DEG
 106°37'33" LONG DEG

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. DEWPNT PERCENT	LENSITY GM/Cubic METER	SHEDS OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(T.)	SPC'D NOOTS	INDEX OF REFRACTION
35500.0	14.7	-44.6	22.4	568.9	284.0	60.6	1.000005	
34600.0	14.4	-44.0	21.9	569.0	285.7	62.6	1.000005	
34500.0	14.0	-43.3	21.3	590.0	280.5	65.5	1.000005	
33900.0	13.7	-42.7	20.7	591.4	289.9	68.7	1.000005	
33500.0	13.4	-42.0	20.4	592.3	287.3	71.9	1.000004	
33000.0	13.1	-41.3	19.7	593.2			1.000004	
32500.0	12.8	-40.5	19.2	594.2			1.000004	
32000.0	12.5	-39.8	18.7	595.2			1.000004	
31750.0	12.3	-39.0	18.2	596.2			1.000004	
31500.0	12.0	-36.2	17.6	597.2			1.000004	
31250.0	11.7	-37.4	17.3	598.2			1.000004	

STATION ALTITUDE 3489.00 FEET MSL
15 SEC. 78 1000 HRS MST
ASCENSION NO. 300

MIN SIGNIFICANT LEVEL DATA
3490020000
WHITE SANDS
TABLE IX.

GEODETIC COORDINATES
32°40'43" LAT DEG
106°37'33" LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TH)	WIND DATA		DEW PT DEP, DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			
2489*	9999.**	9999.**	-9999.**	-9999.**	99	-37.3
2900*	288.	30.	-11.	50.	99	-41.0
2932*	258.	20.	4.	19.	99	-53.4
2946*	267.	15.	1.	15.	99	-57.5
2975*	254.	15.	4.	15.	99	-57.5
2982*	264.	15.	1.	15.	99	-61.1
2160*	230.	9.	-1.	7.	99	-61.4
2056*	238.	7.	-2.	7.	99	-65.3
1936*	271.	22.	-0.	22.	99	-69.3
1655*	257.	20.	5.	20.	99	-68.0
1767*	252.	19.	6.	16.	99	-65.3
1609*	255.	27.	7.	20.	99	-70.3
1641*	255.	27.	7.	20.	99	-67.4

* ** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
 15 DEC. 76 1000 HRS MET
 ASPECTS C. 40. 800

MANUFACTORY LEVELS
 34900±000
 WHITE SANDS
 TABLE X.

GEODETIC COORDINATES
 32°40'43" LAT DEG
 106°37'53" LON DEG

PRESSURE MILLIBARS	ELECTROSTATIC FEET	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	WIND DATA	
				AIR DEWPONT	DIRECTION DEGREES (TN)
850.0	4982.	4.7	-3.1	57.	9999.0 9999.0XX
600.0	6014.	6.8	-3.9	40.	9999.0 9999.0XX
750.0	6354.	6.3	-9.1	32.	9999.0 9999.0XX
700.0	10192.	2.1	-14.0	29.	270.2 24.0
650.0	12157.	1.7	-22.4	15.	223.0 24.1
600.0	44255.	-2.9	-24.9	16.	272.5 24.9
550.0	16501.	-5.0	-29.0	13.	262.0 21.7
500.0	18945.	-9.3	-32.6	12.	261.0 40.6
450.0	21590.	-15.1	-37.6	13.	262.3 40.7
400.0	24460.	-22.8	-40.0	19.	261.7 51.3
250.0	27630.	-30.2	-42.6	28.	200.5 61.2
300.0	31165.	-34.1	-49.2	35.	277.0 64.4
250.0	35130.	-43.5			266.8 69.9
200.0	39880.	-60.0			286.4 110.1
175.0	42559.	-65.5			283.9 60.3
150.0	45579.	-59.4			204.4 75.5
125.0	49393.	-62.8			201.7 75.0
100.0	53320.	-67.4			255.3 56.9
80.0	58224.	-65.5			232.2 36.8
70.0	60674.	-68.0			250.9 39.5
60.0	63204.	-68.9			273.0 40.1
50.0	67511.	-65.3			280.1 10.8
40.0	72010.	-61.3			270.0 10.9
30.0	77905.	-57.5			253.0 29.8
25.0	81630.	-57.5			277.2 15.4
20.0	86535.	-53.4			257.7 36.0
15.0	92525.	-45.2			282.1 56.3

XX *MISSING DATA INVALID DUE TO MISSING RAN AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
 15 DEC. 73 1000 HRS MST
 ASCENSION 1.0. 600

MRN MANUFACTURER U.S. VELLS
 349002000J
 WHITE SANDS

GEODETIC COORDINATES
 32°49'43" LAT DEG
 106°37'33" LON DEG

GEOPOTENTIAL ALTITUDE METERS	DIRECTION DEG (T.I.)	SPEED MPS	WIND DATA		DEG C	DEG F	TEMPERATURE DEG C	AIR DEG C	PRESSURE MILLIBARS
			N-S MPS	E-W MPS					
2820.	232.	30.	-6.	24.	99	-45.2	1.500+1		
2832.	258.	20.	4.	19.	99	-53.4	2.000+1		
2490.	277.	6.	-1.	6.	99	-57.5	2.500+1		
2573.	254.	15.	4.	15.	99	-57.5	3.000+1		
2195.	276.	6.	-1.	6.	99	-61.3	4.000+1		
2058.	268.	7.	-2.	7.	99	-65.3	5.000+1		
1946.	273.	24.	-1.	24.	99	-68.9	6.000+1		
1859.	257.	20.	5.	20.	99	-68.0	7.000+1		
1775.	252.	18.	6.	18.	99	-65.5	8.000+1		
1641.	255.	27.	7.	60.	99	-67.4	1.000+2		
1505.	262.	34.	6.	28.	99	-62.8	1.250+2		
1392.	264.	36.	4.	30.	99	-59.4	1.500+2		
1290.	264.	47.	-12.	48.	99	-65.5	1.750+2		
1416.	286.	57.	-16.	24.	99	-60.0	2.000+2		
1072.	239.	51.	-17.	49.	99	-48.5	2.500+2		
950.	277.	35.	-14.	35.	10	-39.1	3.000+2		
842.	261.	34.	5.	31.	13	-30.2	3.500+2		
740.	252.	20.	4.	20.	17	-22.6	4.000+2		
650.	266.	24.	2.	24.	22	-15.1	4.500+2		
577.	262.	24.	3.	21.	24	-8.3	5.000+2		
502.	263.	10.	2.	10.	24	-5.0	5.500+2		
434.	272.	14.	-6.	11.	22	-2.9	6.000+2		
371.	263.	11.	-2.	12.	24	1.7	6.500+2		
311.	276.	12.	-2.	12.	16	2.1	7.000+2		
252.	9999.**	9927.**	-9999.**	-9999.**	15	6.3	7.500+2		
201.	9999.**	9964.**	-9999.**	-9999.**	11	6.8	8.000+2		
152.	9999.**	9929.**	-9999.**	-9999.**	06	4.7	6.500+2		

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3951.40 FEET MSL
 15 DEC. 78 1057 HRS MST
 ASCESSION NO. 125

SIGNIFICANT LEVEL DATA
 3490050125
 APACHE
 TABLE XI.

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
384.8	3951.4	6.8	-1.1
350.6	5029.8	4.5	-4.7
320.6	5773.4	5.7	-4.4
313.5	6209.3	7.6	-3.3
306.4	6446.5	7.3	-4.4
295.7	6875.6	7.5	-4.6
294.4	9513.0	4.0	-10.0
701.0	10246.3	2.5	-9.4
632.4	10923.5	3.2	-21.7
655.2	12093.7	2.0	-22.6
585.6	14940.6	-5.3	-3.0
544.6	15610.1	-6.3	-28.0
512.9	19352.9	-7.7	-30.5
500.0	18997.8	-9.0	-30.6
433.0	22425.3	-18.0	-28.3
409.0	24511.0	-23.8	-29.9
382.0	25644.1	-25.5	-45.0
375.4	26039.6	-26.2	-41.1
312.2	30319.6	-38.5	-49.5
309.0	31216.3	-41.0	-40.0
294.6	31608.1	-41.2	-27.0
250.0	35232.2	-49.2	-14.0
225.2	37407.4	-53.6	-23.0
200.0	39946.7	-59.7	-49.5
162.0	44171.0	-62.5	-66.0
153.2	44800.5	-67.3	-60.5
154.0	45200.6	-63.3	-66.0
151.0	45734.0	-63.2	-66.0
145.4	45709.5	-60.5	-66.0
123.3	49712.1	-66.0	-66.0

STATION ALTITUDE 3451.40 FEET MSL
15 DEC. 78 1657 HRS MST
ASCENSION I.O. 125

SIGNIFICANT LEVEL DATA
3490050125
APACHE

GEODETIC COORDINATES
32° 62' 7.00 LAT DEG
106° 39' 55.2 LONG DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
117.4	50657.6	-64.2	
110.6	51834.7	-66.6	
100.0	53901.3	-67.3	
94.6	54900.3	-68.6	
85.4	57043.2	-65.0	
70.0	61017.4	-67.9	
50.0	67740.7	-65.3	
30.0	73208.5	-57.7	
24.0	62848.2	-59.4	
23.1	63648.2	-55.0	
20.0	66717.6	-51.8	
15.2	52716.3	-43.7	
13.8	94809.5	-43.2	
12.4	97262.3	-38.1	
11.5	99002.1	-38.0	

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ACCESSION NO. 125

UPPER AIR DATA
3490050125
APACHE
TABLE XII.

GEOMETRIC PRESSURE ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT PERCENT	REL. HUM. GM/CURIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
3951.4	884.8	6.9	-1.1	57.0	1096.4	652.6	36.0	1.000272
4070.0	863.2	6.7	-1.3	56.7	1096.8	652.5	1.000271	
4500.0	860.9	5.6	-2.9	53.9	1081.0	651.2	1.000265	
5000.0	850.9	4.6	-4.6	51.2	1065.4	649.8	1.000259	
5500.0	835.2	5.3	-4.5	49.1	1043.1	650.7	1.000254	
6000.0	819.8	6.7	-3.8	47.0	1018.5	652.4	1.000249	
6500.0	804.8	7.3	-4.4	42.9	997.0	653.1	1.000243	
7000.0	790.0	7.3	-4.8	41.6	979.2	653.1	1.000239	
7500.0	775.5	6.7	-5.0	39.9	963.6	652.3	1.000234	
8000.0	761.2	6.0	-7.1	38.2	946.2	651.5	1.000229	
8500.0	747.2	5.3	-8.3	36.5	933.4	650.7	1.000224	
9000.0	733.4	4.7	-9.5	34.8	916.2	649.9	1.000219	
9500.0	719.9	4.0	-10.7	33.1	903.5	649.0	1.000215	
10000.0	706.5	3.0	-9.6	39.0	889.8	647.9	1.000213	
10500.0	693.4	2.8	-12.4	31.5	674.5	647.5	1.000206	
11000.0	680.4	3.1	-21.7	14.0	657.5	647.7	1.000196	
11500.0	677.7	2.6	-22.2	14.0	843.4	647.1	1.000193	
12000.0	665.3	2.0	-22.6	14.0	829.2	649.4	1.000190	
12500.0	642.9	.8	-22.0	15.4	817.1	645.0	1.000187	
13000.0	630.7	-5	-22.7	16.7	805.3	643.5	1.000184	
13500.0	618.8	-1.7	-22.8	18.1	793.7	642.6	1.000182	
14000.0	607.0	-3.0	-23.0	19.4	782.4	640.6	1.000179	
14500.0	595.6	-4.2	-23.3	20.8	774.0	639.1	1.000177	
15000.0	584.3	-5.3	-23.6	21.4	759.9	637.7	1.000174	
15500.0	573.0	-5.6	-25.0	19.9	745.7	637.4	1.000170	
16000.0	562.0	-5.9	-26.3	18.0	732.4	637.1	1.000167	
16500.0	551.2	-6.1	-27.7	16.2	719.8	636.7	1.000163	
17000.0	540.6	-6.5	-28.8	14.9	705.9	636.3	1.000160	
17500.0	530.1	-6.9	-29.4	14.6	693.3	635.8	1.000157	
18000.0	519.9	-7.4	-30.1	14.2	681.2	635.2	1.000154	

AX shows DATA INVALID due to MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3451.40 FEET MSL
 15 DEC. 76 1057 HRS MSL
 ASCENSION NO. 125

UPPER AIR DATA
 3490000143
 APACHE

GEODETIC COORDINATES
 32° 02' 70" LAT DEG
 106° 39' 52" LON DEG

GEODETIC PRESSURE, ALTITUDE MSL FEET	PRESSURE, MILLIBARS	TEMPERATURE, AIR DEGREES CENTIGRADE	JEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION
18560.0	509.3	-8.0	-20.6	14.2	669.6	634.5	261.8	39.4
19000.0	500.0	-9.0	-30.8	15.0	654.4	633.3	203.2	42.0
19500.0	490.1	-10.3	-29.6	18.7	645.3	631.7	204.6	44.3
20000.0	480.4	-11.6	-26.9	22.3	639.6	630.1	207.4	45.8
20500.0	470.9	-12.9	-18.4	26.0	630.1	628.0	205.9	47.4
21000.0	461.6	-14.3	-23.1	29.6	620.8	627.0	270.5	48.9
21520.0	452.4	-15.6	-22.0	33.3	611.6	625.4	271.0	50.3
22000.0	443.5	-16.9	-23.1	36.9	602.5	625.6	209.6	51.3
22500.0	434.7	-18.2	-29.3	40.6	593.6	622.4	203.3	52.4
23000.0	425.8	-19.6	-29.5	44.7	584.7	620.5	200.9	53.7
23500.0	417.2	-21.0	-26.9	48.7	576.0	613.8	204.9	55.1
24000.0	408.7	-22.4	-29.3	52.8	567.4	617.4	202.3	56.5
24500.0	400.3	-23.7	-29.9	56.3	556.9	615.4	209.3	57.9
25000.0	392.1	-24.5	-34.6	38.3	545.2	614.4	205.9	59.4
25500.0	384.0	-25.3	-42.2	18.6	539.7	613.4	204.1	60.9
26000.0	376.0	-26.1	-41.4	22.1	530.2	612.3	204.4	62.1
26500.0	368.0	-27.5	-41.9	23.8	521.9	610.6	220.1	61.2
27000.0	360.2	-29.0	-42.3	24.6	513.0	609.9	229.4	58.6
27500.0	352.5	-30.4	-43.6	25.4	505.6	607.0	261.7	57.6
28000.0	345.0	-31.3	-44.8	26.2	496.0	605.2	264.2	56.6
28500.0	337.7	-32.7	-45.7	27.0	490.2	603.4	205.6	56.9
29000.0	330.5	-34.7	-46.8	27.8	482.6	601.0	206.8	57.1
29500.0	323.4	-36.1	-47.8	28.7	475.3	599.8	260.1	55.7
30000.0	316.5	-37.6	-48.8	29.5	468.1	590.0	209.6	54.5
30500.0	309.7	-39.0	-51.8	24.0**	460.8	596.1	272.6	56.2
31000.0	302.9	-40.4	-62.4	7.2**	453.4	594.4	275.3	56.1
31500.0	296.2	-41.1			446.6	593.4	279.0	63.1
32000.0	289.6	-42.1			439.6	592.2	202.8	68.2
32500.0	283.1	-43.2			426.0	590.6	205.6	73.3
33000.0	276.7	-44.3			421.6	589.4	203.5	78.5

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3451.40 FLET MSL
15 JEC. 76 1057 HRS MST
ASCEND. NO. 125

UPPER AIR DATA
3490050125
APACHE

GEOGRAPHIC COORDINATES
32.02700 LAT DEG
106.39352 LON DEG

GEOMETRIC PRESSURE ALTITUDE MSL FEET	AIR DEPOINT MILLIBARS	TEMPERATURE DEGREE, CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TA)	WIND DATA KNOTS	INDEX OF REFRACTION.
3550.0	270.5	-45.4		415.7	566.0	290.4	82.5	1.000092
3400.0	264.4	-46.5		406.4	566.5	292.2	86.6	1.000091
3450.0	258.5	-47.6		399.4	565.1	292.2	90.0	1.000089
3500.0	252.7	-48.7		392.1	583.7	292.4	93.3	1.000087
3550.0	246.9	-49.7		385.0	586.3	290.8	96.3	1.000086
3600.0	241.2	-50.7		377.7	581.0	289.3	99.5	1.000084
3650.0	235.6	-51.7		370.0	579.7	289.0	103.8	1.000083
3700.0	230.2	-52.7		363.7	579.5	286.6	108.3	1.000081
3750.0	224.8	-53.7		356.9	577.1	285.7	112.7	1.000079
3800.0	219.5	-54.9		350.4	575.5	284.9	116.9	1.000078
3850.0	214.3	-56.1		344.4	573.9	284.8	116.0	1.000077
3900.0	209.3	-57.4		337.9	572.3	264.7	115.0	1.000075
3950.0	204.3	-58.6		331.6	570.6	265.2	109.2	1.000074
4000.0	199.5	-59.8		325.7	569.9	265.7	103.3	1.000073
4050.0	194.6	-61.0		319.4	567.5	265.8	100.9	1.000071
4100.0	189.8	-62.1		313.3	566.0	265.9	99.4	1.000070
4150.0	185.2	-63.2		307.4	564.5	265.7	99.1	1.000068
4200.0	180.6	-64.3		301.3	562.9	265.3	100.3	1.000067
4250.0	176.2	-65.5		295.5	561.4	265.0	101.5	1.000066
4300.0	171.9	-66.6		289.9	559.9	265.6	101.9	1.000065
4350.0	167.7	-67.7		284.3	558.4	262.2	102.1	1.000063
4400.0	163.5	-68.9		278.9	556.8	273.9	102.1	1.000062
4450.0	159.5	-68.0		270.6	556.0	276.6	102.0	1.000060
4500.0	155.5	-64.8		266.1	562.4	275.4	100.6	1.000058
4550.0	151.7	-63.2		251.4	564.4	270.4	97.5	1.000056
4600.0	148.1	-62.1		244.4	566.0	267.6	93.8	1.000054
4650.0	144.5	-60.7		236.4	567.2	260.4	85.8	1.000053
4700.0	140.9	-61.5		234.4	566.7	264.2	84.0	1.000052
4750.0	137.5	-62.4		227.3	565.9	265.6	60.7	1.000051
4800.0	134.2	-63.2		222.0	564.5	263.0	77.3	1.000050

STATION ALTITUDE 3951.40 FEET MSL
 15 DEC. 78 1057 HRS MST
 ASCENSION NO. 125

UPPER AIR DATA
 3490050125
 APACHE

GEODETIC COORDINATES
 32°02'700 LAT LEG
 106°39'352 LON LEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION, WEEKS(T) KNOTS	WIND DATA KNOTS	INDEX OF REFRACTION
44500.0	130.9	-64.0	218.0	563.4	262.9	75.7	1.000049	
49000.0	127.7	-64.8	213.9	562.3	263.0	74.8	1.000048	
49500.0	124.0	-65.7	209.2	561.2	262.9	74.1	1.000047	
50000.0	121.5	-65.5	205.9	561.4	262.4	73.6	1.000045	
50500.0	118.6	-64.6	198.0	562.7	262.0	73.2	1.000044	
51000.0	115.6	-64.9	193.4	562.3	261.0	72.9	1.000043	
51500.0	112.6	-65.9	189.0	560.3	260.1	72.7	1.000042	
52000.0	110.0	-66.8	185.8	559.0	259.2	72.6	1.000041	
52500.0	107.3	-67.0	181.3	559.4	258.4	72.6	1.000040	
53000.0	104.6	-67.1	176.9	559.5	257.6	72.6	1.000039	
53500.0	102.0	-67.2	172.0	559.1	257.5	72.6	1.000038	
54000.0	99.5	-67.4	168.5	558.8	257.3	72.5	1.000038	
54500.0	97.0	-68.0	164.9	557.9	257.3	72.9	1.000037	
55000.0	94.6	-68.5	161.4	557.5	257.3	73.2	1.000036	
55500.0	92.3	-67.7	156.4	558.4	257.4	72.8	1.000035	
56000.0	90.0	-66.8	154.2	559.6	257.6	71.8	1.000034	
56500.0	87.8	-65.9	147.5	560.8	257.7	70.7	1.000033	
57000.0	85.6	-65.1	149.2	562.0	257.0	66.2	1.000032	
57500.0	83.5	-65.3	139.9	561.6	256.2	61.7	1.000031	
58000.0	81.4	-65.7	136.7	564.1	254.6	56.0	1.000030	
58500.0	79.4	-66.1	133.6	560.0	251.7	49.3	1.000030	
59000.0	77.4	-66.4	130.5	560.1	247.9	42.8	1.000029	
59500.0	75.5	-66.2	127.0	559.6	245.0	38.6	1.000028	
60000.0	73.7	-67.2	124.6	559.4	245.2	34.7	1.000028	
60500.0	71.6	-67.5	121.7	550.0	244.7	31.2	1.000027	
61000.0	70.1	-67.9	118.3	551.2	244.2	28.5	1.000026	
61500.0	68.3	-67.7	115.9	550.4	240.4	25.9	1.000026	
62000.0	66.6	-67.5	113.9	550.0	239.0	22.4	1.000025	
62500.0	65.0	-67.3	110.0	550.9	236.5	16.8	1.000024	
63000.0	63.4	-67.1	107.2	550.2	236.0	15.6	1.000024	

STATION ALTITUDE 3451.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION: 1.0. 125

UPPER AIR DATA
34300050125
APACHE

GEOGRAPHIC COORDINATES
32°02'2700 LAT DEG
106°39'352 LON DEG

GEOMETRIC ALTITUDE HSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE'S CELSIUS	DEWPOINT DEGREE'S CELSIUS	REL.HUM. PERCENT	G/M CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (IN)	DATA SPEED KNOTS	INDEX OF REFRACTION
6350.0	61.6	-66.3	-66.7	104.4	559.4	272.2	13.2		
6400.0	60.3	-66.7	-66.0	101.8	559.7	260.0	12.2	1.000023	
6450.0	58.8	-66.6	-66.4	99.2	560.0	302.9	13.0	1.000022	
6500.0	57.4	-66.4	-66.2	96.6	560.4	309.7	14.9	1.000022	
6550.0	55.9	-66.2	-65.9	94.1	560.5	304.6	18.5	1.000021	
6600.0	54.6	-66.0	-65.8	91.7	560.7	297.1	22.3	1.000020	
6650.0	53.2	-65.8	-65.6	89.4	561.0	287.4	27.3	1.000020	
6700.0	51.9	-65.6	-65.4	87.1	561.3	280.9	32.9	1.000019	
6750.0	50.6	-65.4	-64.9	84.9	561.5	270.4	37.8	1.000019	
6800.0	49.4	-65.1	-64.7	82.7	561.9	273.0	42.4	1.000018	
6850.0	48.2	-64.7	-64.4	80.5	562.4	270.5	46.7	1.000018	
6900.0	47.0	-64.4	-64.0	78.3	562.9	269.7	48.8	1.000017	
6950.0	45.9	-64.0	-63.7	76.4	563.4	269.0	51.0	1.000017	
7000.0	44.8	-63.7	-63.3	74.5	563.9	269.0	50.3	1.000017	
7050.0	43.7	-63.3	-62.9	72.5	564.4	269.4	47.6	1.000016	
7100.0	42.6	-62.9	-62.6	70.7	564.9	269.6	45.1	1.000016	
7150.0	41.6	-62.6	-62.3	68.9	565.3	270.1	38.1	1.000015	
7200.0	40.5	-62.2	-61.9	67.1	565.8	270.0	31.2	1.000015	
7250.0	39.6	-61.3	-61.5	65.3	566.3	270.5	24.4	1.000015	
7300.0	38.7	-61.5	-61.1	63.7	566.8	269.3	17.8	1.000014	
7350.0	37.7	-61.1	-60.8	62.0	567.3	260.5	11.2	1.000014	
7400.0	36.8	-60.8	-60.4	60.4	567.8	257.5	7.0	1.000013	
7450.0	36.0	-60.4	-60.0	58.9	568.4	239.3	5.2	1.000013	
7500.0	35.1	-60.0	-59.7	57.3	568.7	209.7	4.5	1.000013	
7550.0	34.2	-59.7	-59.4	55.9	569.4	195.9	5.3	1.000012	
7600.0	33.4	-59.3	-59.0	54.4	569.7	191.3	6.7	1.000012	
7650.0	32.6	-58.9	-58.6	53.0	570.4	190.3	8.0	1.000012	
7700.0	31.8	-58.6	-58.3	51.7	570.7	190.1	8.5	1.000012	
7750.0	31.1	-58.2	-57.9	50.3	571.1	211.0	8.6	1.000011	
7800.0	30.3	-57.9	-57.6	49.0	571.6	222.6	9.3	1.000011	

STATION ALTITUDE 3451.40 FEET MSL
 15 DEC. 73 1057 HRS MST
 ASCENS. 0.0, 1.0. 125

UPPER AIR DATA
 3490030125
 APACHE

GEOGRAPHIC COORDINATES
 32°02'00" LAT DEG
 106°39'52" LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	SPEED OF SOUND METER KNOTS	WIND DATA DIRECTION DEGREES(T)	INDEX OF REFRACTION
7650.0	29.6	-57.8	47.9	571.7	244.0	1.000011
7900.0	28.9	-58.0	48.8	571.4	260.2	1.000010
7950.0	23.2	-53.2	45.7	571.2	239.3	1.000010
8000.0	27.5	-53.4	44.6	571.0	272.6	1.000010
8050.0	26.9	-50.5	43.6	570.7	274.1	1.000010
8100.0	26.2	-58.7	42.6	570.5	275.3	1.000009
8150.0	25.6	-58.9	41.6	570.2	274.1	1.000009
8200.0	25.0	-59.1	40.7	570.0	272.0	1.000009
8250.0	24.4	-59.3	39.9	569.7	270.2	1.000009
8300.0	23.8	-56.6	38.7	570.7	267.5	1.000009
8350.0	23.3	-55.8	37.5	574.5	264.9	1.000008
8400.0	22.7	-54.6	36.2	572.9	262.6	1.000008
8450.0	22.2	-54.1	35.3	570.6	264.4	1.000008
8500.0	21.7	-53.6	34.4	577.3	260.1	1.000006
8550.0	21.2	-53.1	33.5	577.9	259.0	1.000007
8600.0	20.7	-52.5	32.7	576.0	253.0	1.000007
8650.0	20.2	-52.0	31.8	579.3	250.4	1.000007
8700.0	19.7	-51.4	31.0	560.1	256.1	1.000007
8750.0	19.3	-50.7	30.2	561.0	257.0	1.000007
8800.0	18.9	-50.1	29.5	561.9	257.0	1.000007
8850.0	18.4	-49.4	28.7	562.9	259.2	1.000006
8900.0	18.0	-48.7	26.0	563.0	227.3	1.000006
8950.0	17.6	-43.0	27.2	564.0	250.9	1.000006
9000.0	17.2	-47.4	26.0	585.4	260.4	1.000006
9050.0	16.8	-40.7	25.9	586.1	264.0	1.000006
9100.0	16.4	-45.0	25.6	587.1	269.0	1.000006
9150.0	16.1	-45.3	24.6	588.0	270.0	1.000005
9200.0	15.7	-44.7	25.9	588.4	277.0	1.000005
9250.0	15.4	-44.0	25.2	589.7	260.1	1.000005
9300.0	15.0	-43.6	22.8	590.2	263.0	1.000005

STATION ALTITUDE 3551.40 FEET MSL
 15 DEC. 78 1057 HRS MST
 ASCENSION NO. 125

UPPER AIR DATA
 34900501E5
 APACHE

GEODETIC COORDINATES
 32.62700 LAT LEG
 106.99352 LON LEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CELSIUS	AIR DENSITY GM/CUBIC METER	REL.HUM. PERCENT	SPEED OF SOUND KILOMETERS PER HOUR	WIND DIRECTION DEGREES (1M)	WIND SPEED KNOTS	INDEX OF REFRACTION
95500.0	14.7	-43.5	22.0	590.4	265.5	45.6	1.000005	
94000.0	14.3	-42.4	21.3	590.3	267.5	48.2	1.000005	
94500.0	14.0	-43.3	21.3	590.7	269.4	50.9	1.000005	
95000.0	13.7	-42.9	20.6	591.1	294.6	53.8	1.000005	
95500.0	13.4	-41.9	20.2	592.5	294.0	56.8	1.000005	
96000.0	13.1	-40.8	19.7	593.8	295.2	60.0	1.000004	
96500.0	12.8	-39.8	19.2	595.2	1.000004			
97000.0	12.6	-38.7	18.7	596.5	1.000004			
97500.0	12.3	-38.1	18.2	597.3	1.000004			
98000.0	12.0	-33.1	17.8	597.3	1.000004			
98500.0	11.8	-38.0	17.4	597.4	1.000004			
99000.0	11.5	-38.0	17.0	597.4	1.000004			

STATION ALTITUDE 3951.40 FEET MSL
 15 W.L.C. 78 1657 HRS MST
 ASCENSION NO. 125

MRN SIGNIFICANT LEVEL DATA
 349005C125
 APACHE
 TABLE XIII.

GEOGRAPHIC COORDINATES
 32.62700 LAT L.G.
 106.39352 LON L.G.

GEOPOTENTIAL ALTITUDE DECMETERS	DIRECTION W.E.G. (T.R.)	WIND DATA		TEMPERATURE DEG C	PRESSURE MILLIBARS
		SPEED MPS	H-S MPS		
3602.	9999.**	9999.**	-9999.**	99	-38.0
2950.	9999.**	9999.**	-9999.**	99	-38.1
2677.	291.	27.	-10.	25.	-43.2
2612.	281.	22.	-4.	24.	-43.7
2031.	256.	24.	5.	20.	-51.8
2533.	294.	23.	2.	22.	-55.0
2514.	268.	19.	1.	19.	-59.4
	229.	5.	5.	4.	-40.1
	275.	21.	-2.	24.	-57.7
	1854.	15.	6.	15.	-65.3
	1735.	34.	6.	15.	-67.9
	1670.	36.	6.	15.	-65.0
	1650.	37.	6.	15.	-66.6
				99	90.480+1
				99	1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3651.40 FEET MSL
15 DEC. 76 1057 HRS MST
ASCENSION NO. 125

MANDATORY LEVELS
34900050125
APACHE
TABLE XIV.

GEOGRAPHIC COORDINATES
32°02'700 LAT DEG
106.39352 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE			REL. HUM. PERCENT	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS
		AIR DEWPNT DEGREES CENTIGRADE	DEWPNT DEGREES CENTIGRADE	REL. HUM. PERCENT			
450.0	5020.	4.5	-4.7	51.	9999.0	9999.0XX	
300.0	6657.	7.4	-4.5	42.	9999.0	9999.0XX	
750.0	6395.	5.5	-8.1	37.	9999.0	9999.0XX	
700.0	10230.	2.5	-9.1	42.	280.4	24.5	
650.0	12202.	1.5	-22.0	12.	274.3	28.0	
600.0	14220.	-3.7	-23.2	20.	206.1	25.4	
550.0	16530.	-6.2	-27.8	16.	262.4	20.4	
500.0	18971.	-9.0	-30.8	15.	263.2	41.9	
450.0	21612.	-15.9	-23.0	34.	270.6	50.6	
400.0	24421.	-23.8	-29.9	57.	259.4	50.0	
350.0	27642.	-30.9	-44.1	60.	262.2	57.3	
300.0	31150.	-41.6			277.4	60.1	
250.0	35150.	-49.2			291.0	94.6	
200.0	39851.	-59.7			205.6	104.2	
175.0	42551.	-65.8			264.9	101.8	
150.0	45612.	-63.2			265.0	96.3	
125.0	49297.	-65.5			225.0	74.2	
100.0	53777.	-67.5			457.3	72.5	
80.0	58164.	-65.0			252.3	51.6	
70.0	60310.	-67.9			246.2	20.6	
60.0	63360.	-66.7			289.7	12.3	
50.0	67439.	-65.3			274.9	39.7	
40.0	71982.	-62.0			270.9	26.0	
30.0	77679.	-57.7			226.7	5.6	
25.0	81642.	-59.1			272.4	35.8	
20.0	86317.	-51.6			258.3	40.6	
15.0	92554.	-43.6			202.6	45.2	

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

AN WIND DATA INVALID DUE TO MISSING WIND AZIMUTH, AND ELEVATION ANGLES.

STATION ALTITUDE 3451.40 FEET MSL
15 DEC. 76 1057 HRS PST
ASCENSION 1.0. 165

MRN MANDATORY LEVELS
3490050125
APACHE
TABLE XV.

GEOPOTENTIAL ALTITUDE METERS	DIRECTION DEG (TRK)	WIND DATA		E-W MPS	N-S MPS	E-W PT LEG	N-S PT LEG	TEMPERATURE DEG C	AIR DEG C	PRESSURE MILLIBARS
		SPEED MPH	DEP							
2821.	263.	24.	-5.	22.	99	99	99	-43.6	1.500+1	
2631.	253.	24.	5.	44.	99	99	99	-51.8	2.000+1	
2468.	272.	17.	-1.	17.	99	99	99	-59.1	2.500+1	
2374.	227.	20.	3.	4.	99	99	99	-57.7	3.000+1	
2194.	271.	14.	-6.	14.	99	99	99	-62.0	4.000+1	
2057.	275.	20.	-2.	20.	99	99	99	-65.3	5.000+1	
1940.	290.	6.	-2.	6.	99	99	99	-66.7	6.000+1	
1654.	246.	15.	6.	15.	99	99	99	-67.9	7.000+1	
1775.	253.	27.	8.	25.	99	99	99	-66.0	8.000+1	
1655.	257.	37.	8.	35.	99	99	99	-67.3	1.000+2	
1505.	263.	36.	5.	36.	99	99	99	-65.5	1.250+2	
1390.	265.	50.	1.	50.	99	99	99	-63.2	1.500+2	
1497.	265.	52.	-15.	51.	99	99	99	-65.8	1.750+2	
1215.	466.	54.	-14.	52.	99	99	99	-59.7	2.000+2	
1072.	492.	49.	-16.	45.	99	99	99	-49.2	2.500+2	
959.	277.	31.	-4.	31.	99	99	99	-41.0	3.000+2	
945.	263.	25.	4.	25.	99	99	99	-30.9	3.500+2	
746.	259.	30.	5.	29.	99	99	99	-23.8	4.000+2	
659.	271.	29.	-6.	29.	99	99	99	-15.9	4.500+2	
574.	263.	22.	5.	21.	99	99	99	-9.0	5.000+2	
304.	262.	15.	2.	14.	99	99	99	-6.2	5.500+2	
435.	266.	10.	0.	10.	99	99	99	-3.7	6.000+2	
372.	274.	14.	-1.	14.	99	99	99	1.5	6.500+2	
312.	260.	10.	-2.	12.	99	99	99	2.5	7.000+2	
250.	9999.**	9995.**	-9999.**	-9995.**	99	99	99	5.5	7.500+2	
203.	9999.**	9995.**	-9999.**	-9995.**	99	99	99	7.4	8.000+2	
155.	9999.**	9995.**	-9999.**	-9995.**	99	99	99	4.5	8.500+2	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCEND. ON NC.

SIGNIFICANT LEVEL DATA
3490220000
NW 30
TABLE XVI.

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

PRESSURE MILLIBARS	GEODETIC ALTITUDE MSL FEET	TEMPERATURE DEGREES CENTIGRADE	AIR DEPOINT CENTIGRADE	REL. HUM. PERCENT
681.5	4010.4	2.9	-2.4	95.0
679.2	4079.6	2.1	-2.0	74.6
674.2	4251.9	4.7	-2.4	90.0
650.0	4956.4	6.6	-2.5	52.0
624.0	5924.2	6.6	-3.0	48.0
304.6	6469.6	8.6	-4.9	38.0
775.8	7457.1	7.6	-6.9	55.0
737.6	8345.7	4.4	-7.4	42.6
707.0	10243.9	3.9	-14.0	24.0
682.4	10891.5	2.5	-17.7	21.0
655.4	11952.5	2.3	-25.1	41.0
561.0	15695.0	-5.2	-27.7	15.0
529.6	17543.2	-7.1	-31.6	42.0
521.6	17903.7	-6.5	-32.0	11.0
507.0	18936.7	-8.2	-33.4	41.0
446.8	21620.7	-15.2	-37.3	13.0
490.0	24532.5	-22.6	-27.3	65.0
352.6	27538.3	-29.4	-36.4	37.0
304.4	30553.1	-32.3	-50.0	20.0
290.0	31236.5	-39.7		
257.0	35222.0	-47.8		
207.0	40646.6	-58.6		
179.0	42256.4	-64.1		
166.4	43707.1	-64.8		
156.4	44755.4	-61.8		
150.0	45673.5	-61.0		
147.0	46234.9	-59.5		
125.0	49613.7	-62.0		
121.0	50175.2	-61.0		
111.4	51643.9	-66.6		

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION ISL.

SIGNIFICANT LEVEL DATA
34902-0000
NW 30

GEOGRAPHIC COORDINATES
32.68497 LAT LEG
106.49714 LON LEG

PRESSURE MILLIBARS	GEOMETRIC ALITUDE FEET MSL	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
104.0	5010.4	-67.4	
100.0	5405.7	-65.3	
95.2	5500.8	-67.3	
92.0	5575.2	-64.6	
88.0	5659.8	-62.5	
70.0	6129.2	-66.5	
65.4	62639.2	-69.0	
59.0	64478.0	-67.9	
50.0	67250.4	-66.2	
45.6	69765.3	-59.7	
40.0	72551.2	-61.5	
30.0	78521.5	-56.2	
23.0	79235.0	-55.6	
21.9	80122.1	-58.0	
20.0	87032.1	-54.1	
14.6	93265.6	-44.4	

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 76 1000 hrs MSI
ABSENCE 140.

UPPER AIR DATA
349026056
MAY 30TH TABLE XVII.

WEDLTIC COCKTAILS
32-06497 LAI LEG
136-049714 LOR LEG

GEOMETRIC PRESSURE ALITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	SOUND SPEED METER METERS	WIND DATA		REFRACTI.
				WIND SPEED KNOTS KNOTS DEGREES CENTIGRADE	WIND DIRECTION DEGREES (TN)	
4000.4	361.5	2.9	-2.4	68.0	1110.6	640.0
4500.0	365.5	5.4	-2.4	57.2	1080.1	650.9
5000.0	349.6	6.6	-2.6	51.9	1050.6	650.3
5500.0	334.0	6.6	-3.2	49.5	1030.4	652.3
6000.0	313.7	7.1	-3.9	45.3	1015.3	652.9
6500.0	295.7	6.6	-5.0	37.9	991.6	654.5
7000.0	279.0	6.1	-5.9	35.4	975.6	655.9
7500.0	274.6	7.5	-6.9	35.2	954.7	653.4
8000.0	270.3	6.3	-7.0	37.9	946.0	651.9
8500.0	274.6	5.1	-7.2	40.4	934.5	650.5
9000.0	272.5	4.3	-8.2	39.0	916.4	649.5
9500.0	274.0	4.2	-10.6	33.2	901.9	649.2
10000.0	270.6	4.0	-13.4	26.8	882.0	643.9
10500.0	262.5	3.2	-16.0	22.7	872.1	646.3
11000.0	269.6	2.3	-18.3	20.0	858.6	640.8
11500.0	265.9	2.3	-21.4	15.3	842.9	642.0
12000.0	264.5	2.2	-25.1	11.0	827.5	642.6
12500.0	264.2	1.3	-25.4	11.5	814.6	642.5
13000.0	262.9	4	-25.6	12.0	801.9	644.4
13500.0	261.0	6	-25.9	12.5	789.4	643.5
14000.0	260.3	-1.5	-26.2	13.0	777.2	642.4
14500.0	259.4	-2.4	-26.6	13.5	765.1	641.4
15000.0	259.0	-3.3	-26.9	14.0	753.2	640.0
15500.0	2572.5	-4.3	-27.3	14.5	741.5	639.9
16000.0	2561.7	-5.2	-27.7	15.6	730.0	637.5
16500.0	2550.9	-6.3	-29.0	14.0	717.6	627.1
17000.0	2540.5	-6.5	-30.2	13.0	705.5	636.3
17500.0	2529.9	-7.1	-31.6	12.0	695.6	635.6
18000.0	2519.6	-6.7	-32.1	11.6	679.1	635.1
18500.0	2509.6	-7.4	-32.6	11.0	667.9	635.4

AX FIND DATA INTERVALS DUL TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 50

UPPER AIR DATA
3490220050
NW 30

GEOGRAPHIC COORDINATES
32°06'49.7" LAT DEG
106°49'14" LON DEG

GEOMETRIC PRESSURE ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GR/CUBIC METER	SPEED OF WIND DATA DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OR REFRACTION
1900.0	499.7	-8.2	-33.4	11.0	657.0	0.34.2
1950.0	489.9	-9.5	-34.0	11.4	647.1	0.36.7
2000.0	480.3	-10.7	-36.7	11.7	637.4	0.31.6
2050.0	470.3	-11.9	-35.4	12.1	627.8	0.25.7
2100.0	461.6	-13.2	-36.1	12.4	616.4	0.26.2
2150.0	452.5	-14.4	-36.3	12.8	609.4	0.26.7
2200.0	443.5	-15.7	-35.4	16.4	600.0	0.25.2
2250.0	434.6	-17.1	-31.9	26.0	590.9	0.25.0
2300.0	425.8	-18.4	-26.9	35.6	582.1	0.21.9
2350.0	417.2	-19.8	-22.6	45.2	572.3	0.20.3
2400.0	408.6	-21.1	-27.3	54.6	564.0	0.19.0
2450.0	400.3	-22.5	-27.4	64.4	556.4	0.17.6
2500.0	392.2	-23.7	-29.1	60.6	547.4	0.16.3
2550.0	384.1	-24.6	-31.0	56.0	536.9	0.14.1
2600.0	376.1	-25.9	-32.9	51.3	529.8	0.14.7
2650.0	368.3	-27.1	-35.9	46.7	521.2	0.11.2
2700.0	360.7	-28.2	-37.0	42.6	514.7	0.09.0
2750.0	353.2	-29.3	-38.2	37.4	504.5	0.06.4
2800.0	345.6	-30.5	-40.9	35.5	496.3	0.06.0
2850.0	338.2	-31.9	-42.5	33.9	486.3	0.05.1
2900.0	331.0	-33.2	-44.1	32.3	479.0	0.05.5*
2950.0	323.9	-34.5	-45.6	30.6	472.0	0.04.0
3000.0	316.9	-35.9	-47.4	29.0	465.4	0.03.4
3050.0	310.1	-37.2	-49.1	27.4	457.3	0.02.5
3100.0	303.5	-38.0	-50.5*	20.5**	450.7	0.01.7
3150.0	296.7	-40.2	-44.1	14.0	445.7	0.01.0
3200.0	290.1	-41.2	-47.4	11.0	435.7	0.00.7
3250.0	283.6	-42.2	-49.1	7.0	427.8	0.02.1
3300.0	277.3	-45.2	-52.0	4.0	420.1	0.00.6
3350.0	271.1	-44.2	-49.1	1.0	412.5	0.05.5

* = AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

** WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4019.40 FEET MSL
 15 JEC. 78 1000 HRS EST
 ASCENS. ON .0. 56

UPPER AIR DATA
 345020000
 NW 30

GEOGRAPHIC COORDINATES
 32°06.497 LAT DEG
 106°49.714 LON ECG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL.HUM. PERCENT	REL.HUM. CIGAR	DENSITY GM/CUBIC METER	SWF OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TM)	SPEED KNOTS	INDEX OF REFRACTION
3400.0	265.0	-45.2			405.1	569.6	265.0	66.9	1.0000000
3450.0	259.1	-46.2			397.0	586.9	265.0	65.3	1.0000029
3500.0	253.3	-47.2			390.0	565.0	265.2	64.0	1.0000067
3550.0	247.6	-48.3			383.5	584.2	265.6	62.5	1.0000055
3600.0	241.8	-49.4			376.0	564.7	267.3	63.3	1.000004
3650.0	236.2	-50.6			369.6	584.2	268.1	66.5	1.0000062
3700.0	230.7	-51.7			362.9	579.7	268.0	69.6	1.0000061
3750.0	225.3	-52.8			356.3	576.0	268.2	69.6	1.0000079
3800.0	220.1	-54.0			349.6	579.0	267.6	70.0	1.0000078
3850.0	214.9	-55.1			343.4	573.3	266.9	68.3	1.0000076
3900.0	209.9	-56.3			337.2	573.7	265.2	66.5	1.0000075
3950.0	205.0	-57.4			331.1	572.2	264.4	68.6	1.0000074
4000.0	200.3	-56.5			325.1	570.7	264.6	72.6	1.0000072
4050.0	195.4	-59.7			319.0	569.1	259.5	74.4	1.0000071
4100.0	190.7	-61.0			313.1	567.3	257.1	73.7	1.0000070
4150.0	186.1	-62.2			307.3	565.9	254.9	73.2	1.0000066
4200.0	181.6	-63.4			301.0	564.2	257.1	71.1	1.0000067
4250.0	177.2	-64.2			295.4	563.1	259.8	69.0	1.0000066
4300.0	172.9	-64.4			289.5	562.0	262.4	69.2	1.0000064
4350.0	168.6	-64.7			281.8	562.5	264.5	72.0	1.0000063
4400.0	164.5	-64.1			274.1	563.0	260.4	74.9	1.0000061
4450.0	160.5	-62.6			265.5	562.2	267.5	77.8	1.0000059
4500.0	156.3	-61.6			257.9	560.9	265.1	80.6	1.0000057
4550.0	152.6	-61.3			251.4	567.1	266.7	63.7	1.0000056
4600.0	148.1	-60.6			244.4	569.0	274.0	65.3	1.0000054
4650.0	145.5	-59.7			237.2	569.4	275.2	86.9	1.0000053
4700.0	142.0	-60.2			232.4	568.5	275.7	66.6	1.0000052
4750.0	138.6	-60.7			227.3	567.6	273.9	91.2	1.0000051
4800.0	135.3	-61.2			222.4	567.4	269.6	94.0	1.0000050
4850.0	132.6	-61.8			217.5	569.4	265.3	96.7	1.0000048

STATION ALTITUDE 4610.4 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 50

UPPER AIR DATA
349022000
NW 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

GEOMETRIC PRESSURE ALITUDE MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CELSIUS	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
49070.0	-62.3	212.6	565.7	200.1	99.3	1.000047	
49500.0	-62.0	209.2	563.0	200.7	102.1	1.000046	
50000.0	-62.1	202.5	563.9	200.3	105.7	1.000045	
50500.0	-62.7	196.1	563.2	291.7	112.3	1.000044	
51000.0	-64.0	194.2	563.4	292.0	117.9	1.000043	
51500.0	-65.4	190.9	564.2	292.4	124.5	1.000043	
52000.0	-66.6	187.4	559.8	291.9	131.0	1.000042	
52500.0	-67.0	183.0	559.4	291.3	134.3	1.000041	
53000.0	-67.3	176.6	559.0	290.0	135.9	1.000040	
53500.0	-66.6	173.4	559.0	289.8	137.9	1.000039	
54000.0	-65.5	168.0	561.4	289.9	141.0	1.000038	
54500.0	-66.1	164.9	560.3	287.9	144.1	1.000037	
55000.0	-67.1	161.3	559.4	287.5	147.1	1.000036	
55500.0	-65.2	156.0	561.0	287.2	150.0	1.000035	
56000.0	-64.6	154.5	562.0	285.9	152.9	1.000034	
56500.0	-64.2	147.9	563.1	287.3	150.2	1.000033	
57000.0	-63.9	144.0	563.7	287.7	147.2	1.000032	
57500.0	-63.4	140.2	564.2	285.1	143.8	1.000031	
58000.0	-63.0	139.6	564.6	285.5	138.0	1.000030	
58500.0	-62.6	135.0	565.3	285.9	132.2	1.000030	
59000.0	-63.1	130.4	564.6	285.6	126.1	1.000029	
59500.0	-63.9	127.3	563.0	287.5	119.4	1.000028	
60000.0	-64.6	124.7	562.6	286.0	112.7	1.000028	
60500.0	-65.4	122.1	561.5	285.6	105.7	1.000027	
61000.0	-66.2	119.2	560.2	285.0	99.0	1.000027	
61500.0	-67.0	117.0	559.4	275.7	92.0	1.000026	
62000.0	-67.9	114.6	559.2	272.3	86.3	1.000026	
62500.0	-68.8	112.2	557.0	269.9	81.1	1.000025	
63000.0	-69.6	109.3	556.3	267.1	76.0	1.000024	
63500.0	-66.5	105.6	557.3	265.3	72.5	1.000024	

STATION ALTITUDE 4010.40 FEET MSL
 15 DEC. 78 1000 HRS EST
 ASCENSION NO. 30

UPPLA AIR DATA
 349022005
 NR. 30

GEODETIC COORDINATES
 32.88497 LAT DEG
 106.49714 LON DEG

GEOMETRIC ALTITUDE ASL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL.HUM. PERCENT	DENSITY GR/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (T-H)	INDEX OF REFRACTION
8400.0	61.1	-63.2	103.3	557.7	264.5	70.0	1.000023
8450.0	59.5	-67.9	101.0	559.1	263.6	67.6	1.000023
8500.0	58.1	-67.6	96.4	559.2	262.3	66.0	1.000022
8550.0	50.6	-67.4	90.9	559.6	260.6	65.0	1.000021
8600.0	55.2	-67.2	93.4	559.1	269.2	64.1	1.000021
8650.0	33.9	-66.3	91.0	559.5	258.0	63.5	1.000020
8700.0	52.5	-65.7	86.6	559.0	257.0	63.3	1.000020
8750.0	51.2	-66.4	86.3	560.1	256.0	63.0	1.000019
8800.0	50.0	-66.1	84.4	560.5	255.0	63.7	1.000019
8850.0	4d.7	-64.3	81.3	563.0	255.9	65.1	1.000018
8900.0	47.6	-62.5	78.0	565.4	256.1	66.4	1.000018
8950.0	46.4	-60.7	76.4	567.9	256.6	68.6	1.000017
9000.0	45.3	-59.9	74.0	569.0	257.4	71.3	1.000016
7050.0	44.2	-60.2	72.5	569.3	258.1	74.1	1.000016
7100.0	43.1	-60.5	70.7	569.1	258.4	77.3	1.000016
7150.0	42.1	-60.8	69.1	567.7	258.5	80.8	1.000015
7200.0	41.1	-61.1	67.5	567.4	259.0	84.4	1.000015
7250.0	40.1	-61.5	66.0	566.9	259.7	87.6	1.000015
7300.0	39.1	-61.4	64.0	567.2	256.4	69.3	1.000014
7350.0	36.2	-60.7	62.0	567.9	257.7	90.8	1.000014
7400.0	37.3	-60.2	61.0	568.3	257.3	92.3	1.000014
7450.0	36.4	-59.8	55.5	569.1	257.6	92.3	1.000013
7500.0	35.5	-59.5	57.9	569.7	256.5	90.8	1.000013
7550.0	34.7	-53.9	56.4	570.5	259.5	59.4	1.000013
7600.0	35.9	-56.4	53.0	570.9	260.3	87.9	1.000012
7650.0	32.1	-53.0	52.0	571.4	261.0	82.5	1.000012
7700.0	32.3	-57.0	52.4	572.0	263.0	76.4	1.000012
7750.0	31.5	-57.1	50.6	572.6	267.0	70.6	1.000011
7800.0	30.6	-55.7	49.5	573.4	265.1	63.8	1.000011
7850.0	30.0	-56.2	46.4	573.6	263.5	55.3	1.000011

STATION ALTITUDE 4010.40 FEET MSL
15 SEC. 76 1000 HRS HST
ASCENSION NO. 50

UPPER AIR DATA
3490220USC
NW 30

GEODETIC COORDINATES
32.86497 LAT DEG
106.49714 LONG DEG

GENETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPOINT DEGREES CELSIUS	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS METER	WIND DATA DIRECTION DEGREES (TRI)	SPEED KNOTS	INDEX OF REFRACTION
7900.0	29.3	-55.6		47.0	574.4	261.4	46.9	
7550.0	28.5	-55.7		45.9	574.5	256.0	38.5	
7000.0	26.0	-53.9		44.6	574.6	254.1	35.0	
6500.0	27.3	-56.1		43.8	573.9	249.9	33.2	
6100.0	26.7	-56.3		42.8	573.7	243.4	31.7	
5150.0	26.0	-56.5		41.9	573.4	240.4	30.4	
4200.0	25.4	-56.7		40.9	573.1	236.6	30.5	
8250.0	24.8	-56.9		40.0	572.9	236.4	31.1	
6300.0	24.2	-57.1		29.1	572.0	237.7	31.7	
5350.0	23.7	-57.3		36.2	572.3	237.2	32.2	
4400.0	23.1	-57.5		37.3	572.6	236.7	31.6	
3450.0	22.6	-57.7		36.5	574.0	241.0	30.6	
2500.0	22.0	-58.0		35.7	574.5	245.5	29.6	
6550.0	21.5	-57.2		34.7	574.5	240.1	28.7	
5600.0	21.0	-56.2		35.1	573.0	252.3	28.5	
4650.0	20.5	-55.2		32.8	575.2	259.6	28.9	
3700.0	20.0	-54.2		31.9	576.5	260.6	29.6	
2750.0	19.6	-53.4		31.0	577.5	275.1	31.1	
1800.0	19.1	-52.7		30.2	578.4	277.4	31.9	
8500.0	18.7	-52.0		29.4	579.3	280.7	32.4	
9000.0	18.3	-51.3		28.7	580.3	283.9	33.0	
9500.0	17.9	-50.6		27.9	581.4	289.9	33.7	
3000.0	17.4	-49.9		27.2	582.4	287.9	34.1	
2050.0	17.0	-49.2		26.5	583.0	287.1	34.1	
2100.0	16.7	-48.5		25.8	584.0	286.4	34.6	
2150.0	16.3	-47.6		25.1	584.9	285.6	34.0	
2200.0	16.0	-47.0		24.5	585.3	285.0	34.0	
2250.0	15.9	-46.9		24.0	585.3	284.5	34.0	
2250.0	15.5	-46.3		23.9	585.7	283.5	34.0	
9300.0	15.2	-45.6		23.3	587.0	281.7	34.0	
2250.0	14.6	-44.3		22.7	588.3	280.7	34.0	

STATION ALTITUDE 4010.40 FLET MSL
15 DEG. 7E 1000 HRS
ASUN. 4.00 10.00

MRN SIGNIFICANT LEVEL DATA
34902200000
15 DEG. 7E
ASUN. 4.00 10.00

TABLE XVIII.

GEOPOTENTIAL ALTITUDE SECONDS	DIRECTION SEGS (T)	WIND DATA		C- NIN MPH	DEW PT DEP C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
		SPEED MPH	DIR WPS				
2647.	999.**	999.**	-999.**	-999.**	99	-44.4	1.460+1
2641.	207.	15.	1.	15.	99	-54.1	2.000+1
2583.	244.	15.	7.	14.	99	-56.0	2.190+1
2405.	2.	22.	4.	22.	99	-55.0	2.900+1
2365.	263.	20.	3.	20.	99	-56.2	5.000+1
2205.	259.	45.	9.	44.	99	-61.5	4.000+1
2110.	257.	30.	8.	35.	99	-59.7	4.580+1
2004.	256.	30.	6.	32.	99	-66.2	5.000+1
1955.	264.	35.	4.	35.	99	-67.9	5.960+1
1903.	269.	41.	1.	42.	99	-65.0	6.540+1
1862.	276.	49.	-6.	46.	99	-66.6	7.000+1
1780.	269.	67.	-22.	64.	99	-62.5	8.000+1
1644.	267.	76.	-23.	75.	99	-64.8	9.200+1
1674.	267.	76.	-23.	74.	99	-67.3	9.520+1
1644.	289.	76.	-23.	69.	99	-65.3	1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANULS.

STATION ALTITUDE 4010.40 FEET MSL
LAT. 35° 15' LONG. 125° 15'
ASSENCE IN. 10.0.

MANDATORY LEVELS
349022C050
1000 3000 5000

TABLE XIX.

PRESSURE GEOFORCEIT MILLIBARS	GEOFORCEIT FEET	TEMPERATURE DEGREES CENTIGRADE	AIR DEPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES (TN)	WIND SPEED KNOTS
250.0	4980.	6.6	-2.5	50.	9999.0	9999.0XX
800.0	6320.	6.4	-5.2	36.	9999.0	9999.0XX
750.0	6350.	5.5	-7.4	40.	9999.0	9999.0XX
700.0	10204.	5.9	-14.3	24.	9999.0	9999.0XX
650.0	12169.	1.9	-25.2	14.	9999.0	9999.0XX
600.0	14274.	-2.0	-26.4	10.	9999.0	9999.0XX
550.0	16526.	-5.9	-29.1	14.	9999.0	9999.0XX
500.0	18964.	-8.2	-23.4	14.	9999.0	9999.0XX
450.0	21014.	-14.8	-37.0	10.	9999.0	9999.0XX
400.0	24490.	-22.6	-27.3	05.	270.4	40.8
350.0	27665.	-29.8	-36.9	30.	225.7	33.6
300.0	31130.	-39.7			225.5	49.2
250.0	35217.	-47.8			260.5	93.7
200.0	39434.	-58.6			261.3	74.6
175.0	42610.	-64.3			261.2	65.1
150.0	45750.	-61.0			270.3	64.9
125.0	49475.	-62.9			269.4	102.6
100.0	53915.	-65.3			265.7	141.4
80.0	58490.	-62.5			268.9	121.4
70.0	61050.	-66.6			277.8	95.1
60.0	64140.	-65.0			264.0	66.5
50.0	67720.	-66.2			255.7	62.6
40.0	72257.	-61.5			258.2	67.9
30.0	76104.	-56.2			265.5	55.6
25.0	81993.	-56.9			255.4	30.9
20.0	86934.	-54.1			260.5	29.8
15.0	92309.	-45.2				

* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING PAY AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4016.40 FEET ASL
15 SEC. 70 JUNO 1955
ASCENSION NO. 50

TABLE XX.

TABLE XXX.

GEODETIC COORDINATES
 36° 00' 497 LA, 106°
106° 49' 714 LO, 1 DEG

UPPER THERMOMETER ALTITUDE IN FEET (ft.)	DIRECTION LEGS (T.)	WIND DATA		TEMPERATURE AIR DEG C	TEMPERATURE DEP DEG C	PRECIPITATION IN MILLIMETERS
		SPEED MPH	N-S MPH			
2629.	9999.**	9999.**	-9999.**	-9999.**	-45.2	1.500+1
2644.	267.	15.	1.	95	-54.1	2.000+1
2649.	236.	16.	2.	95	-56.9	2.500+1
2385.	264.	25.	3.	95	-56.2	3.000+1
2405.	259.	45.	9.	94	-61.5	4.000+1
2064.	256.	35.	0.	94	-66.2	5.000+1
1951.	264.	35.	4.	94	-68.0	6.000+1
1862.	278.	45.	-7.	94	-66.6	7.000+1
1760.	289.	66.	-22.	94	-62.5	8.000+1
1644.	289.	75.	-23.	94	-65.2	1.000+2
1566.	269.	55.	-17.	94	-62.9	1.250+2
1395.	270.	44.	-0.	94	-61.0	1.500+2
1300.	261.	35.	5.	93	-64.3	1.750+2
1217.	262.	37.	5.	93	-58.6	2.000+2
1075.	267.	35.	2.	93	-47.5	2.500+2
951.	254.	25.	7.	93	-39.7	3.000+2
845.	259.	16.	3.	10	-29.8	3.500+2
747.	276.	25.	-3.	10	-22.6	4.000+2
657.	9499.	**	9499.**	-9499.**	-14.6	4.500+2
576.	9499.	**	9499.**	-9499.**	-6.2	5.000+2
304.	9499.	**	9499.**	-9499.**	-5.9	5.500+2
455.	9999.	**	9999.**	-9999.**	-2.0	6.000+2
371.	9599.	**	9599.**	-9599.**	1.9	6.500+2
341.	9999.	**	9439.**	-9439.**	3.9	7.000+2
255.	9999.	**	9399.**	-9399.**	5.5	7.500+2
205.	9399.	**	9929.**	-9929.**	6.4	8.000+2
155.	9999.	**	9999.**	-9999.**	6.6	8.500+2

• **DATA KODI** WHICH IS USED TO OFFER THE OFFICE RATES.